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Metabolic Model Generalization

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Metabolic Model Generalization

Anna Zhukova

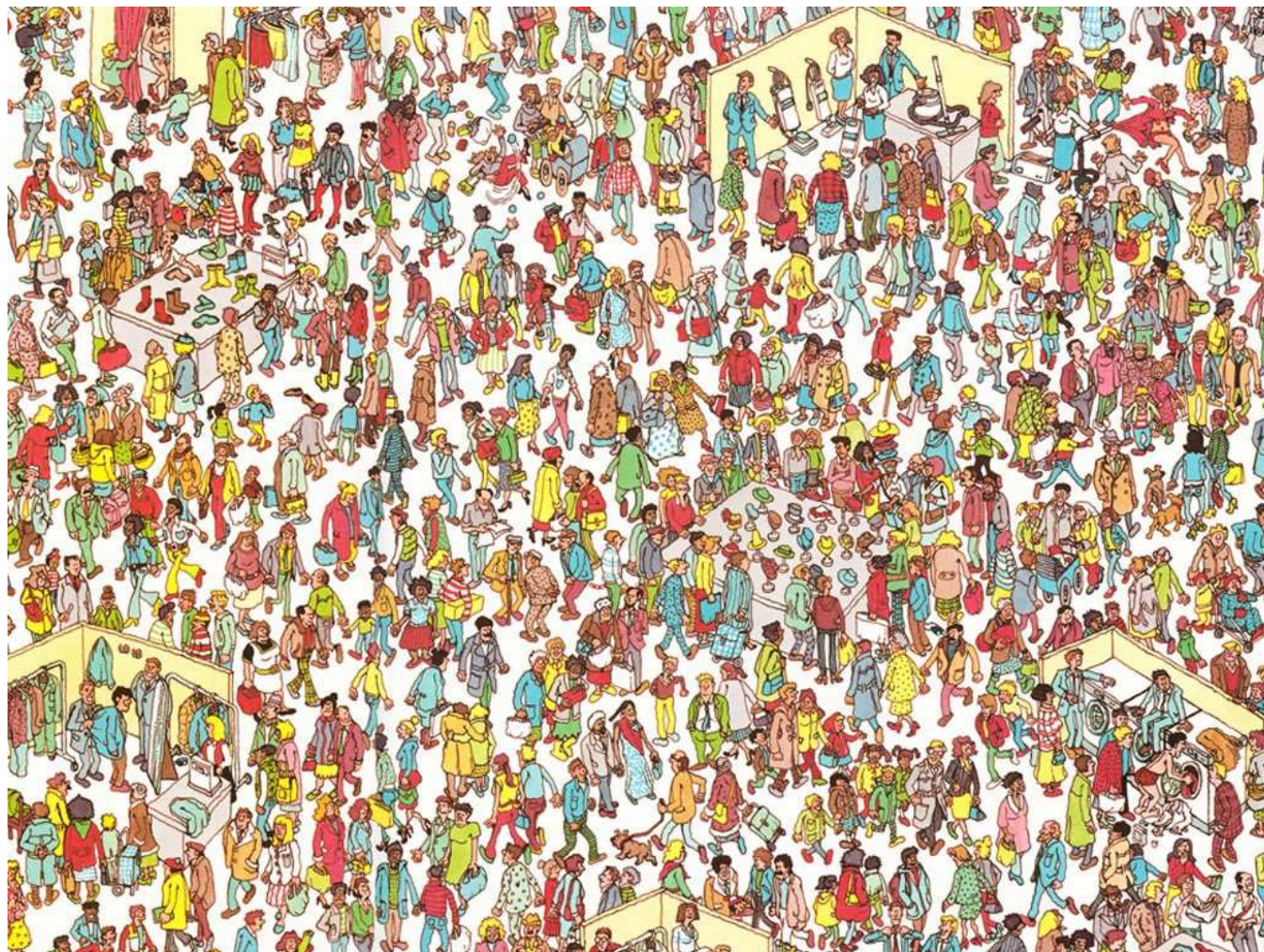
Project-team

MAGNOME

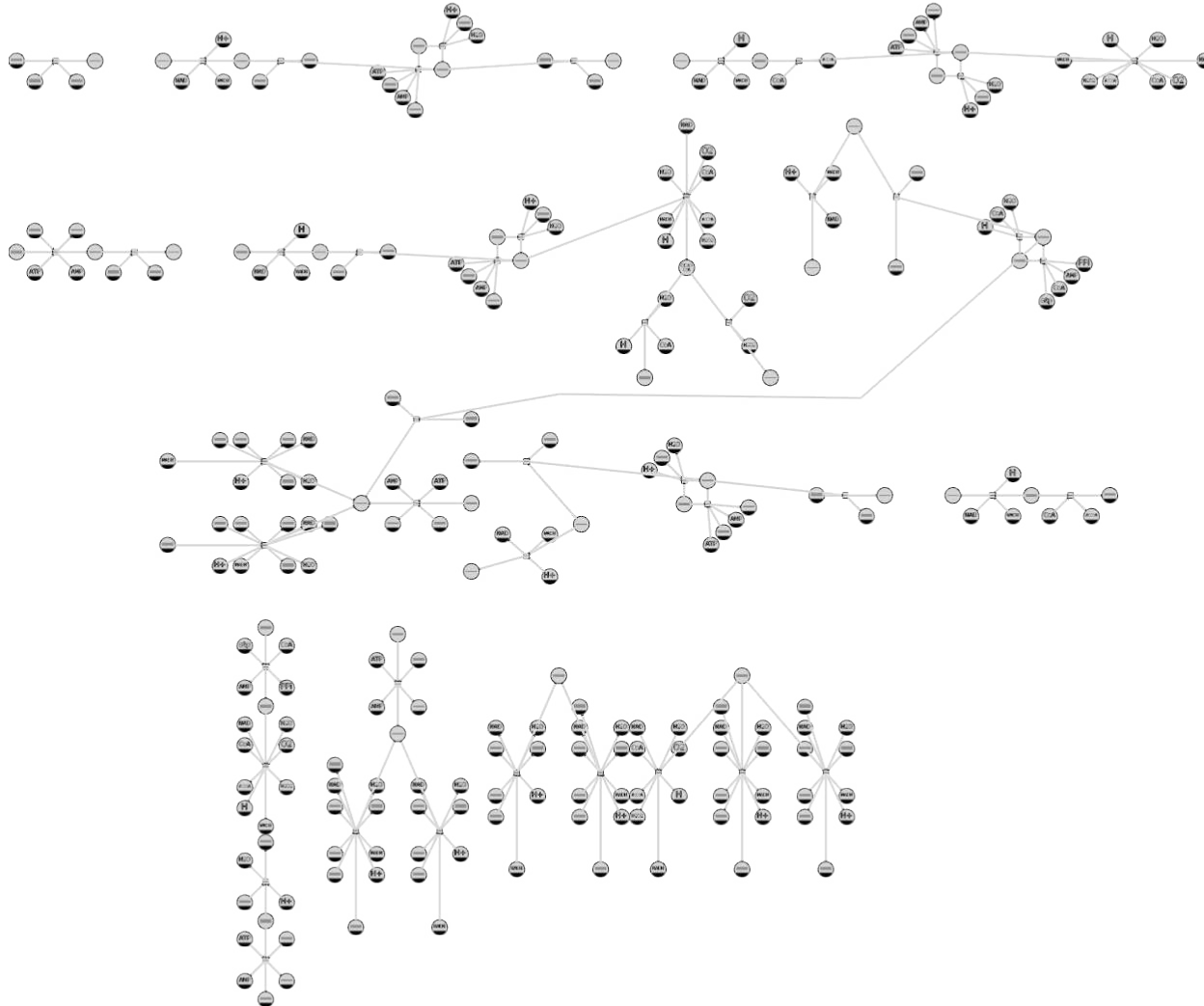
Inria Bordeaux - Sud-Ouest

ICYSB. June 3-10, 2013

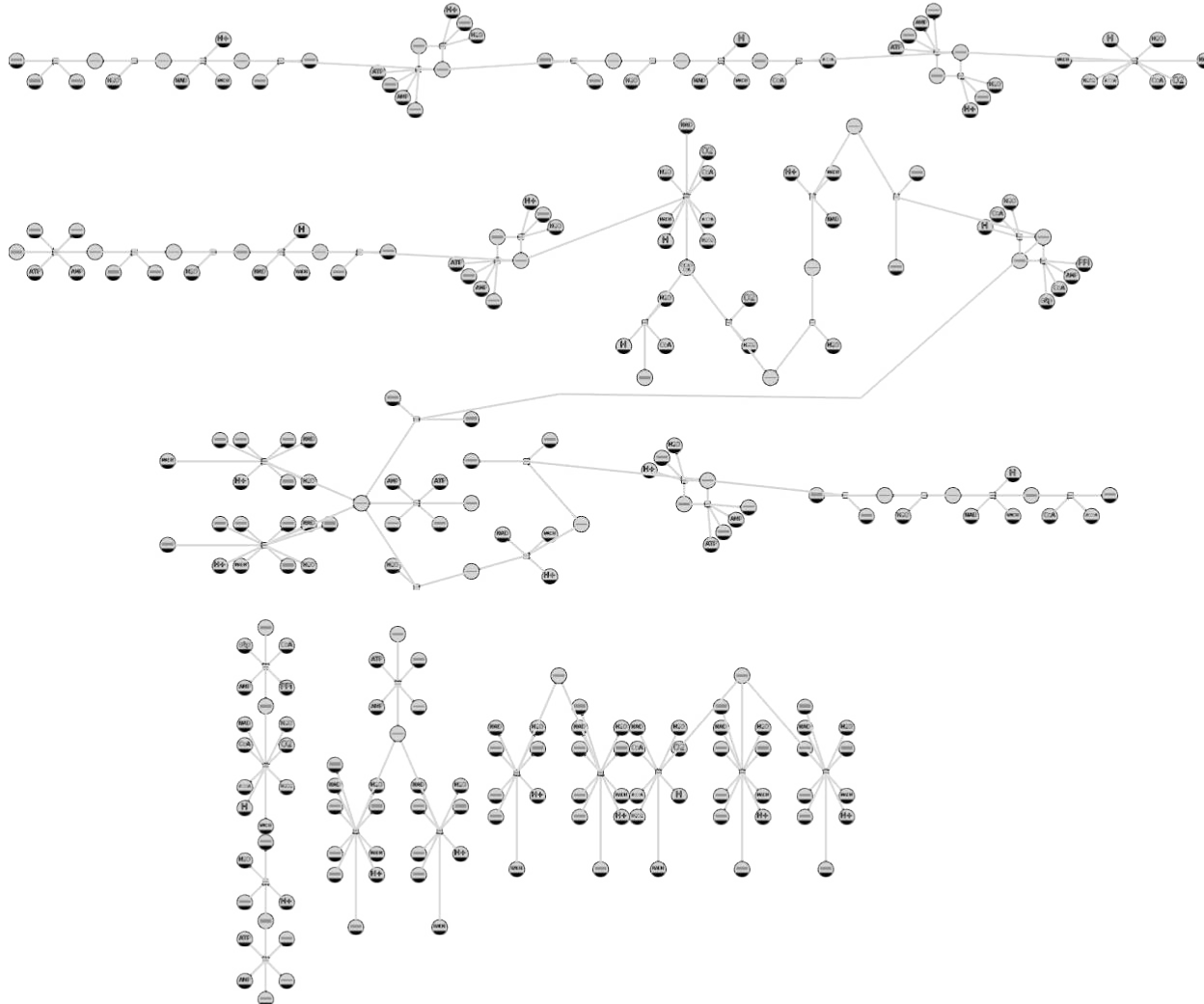
Where's Wally ?



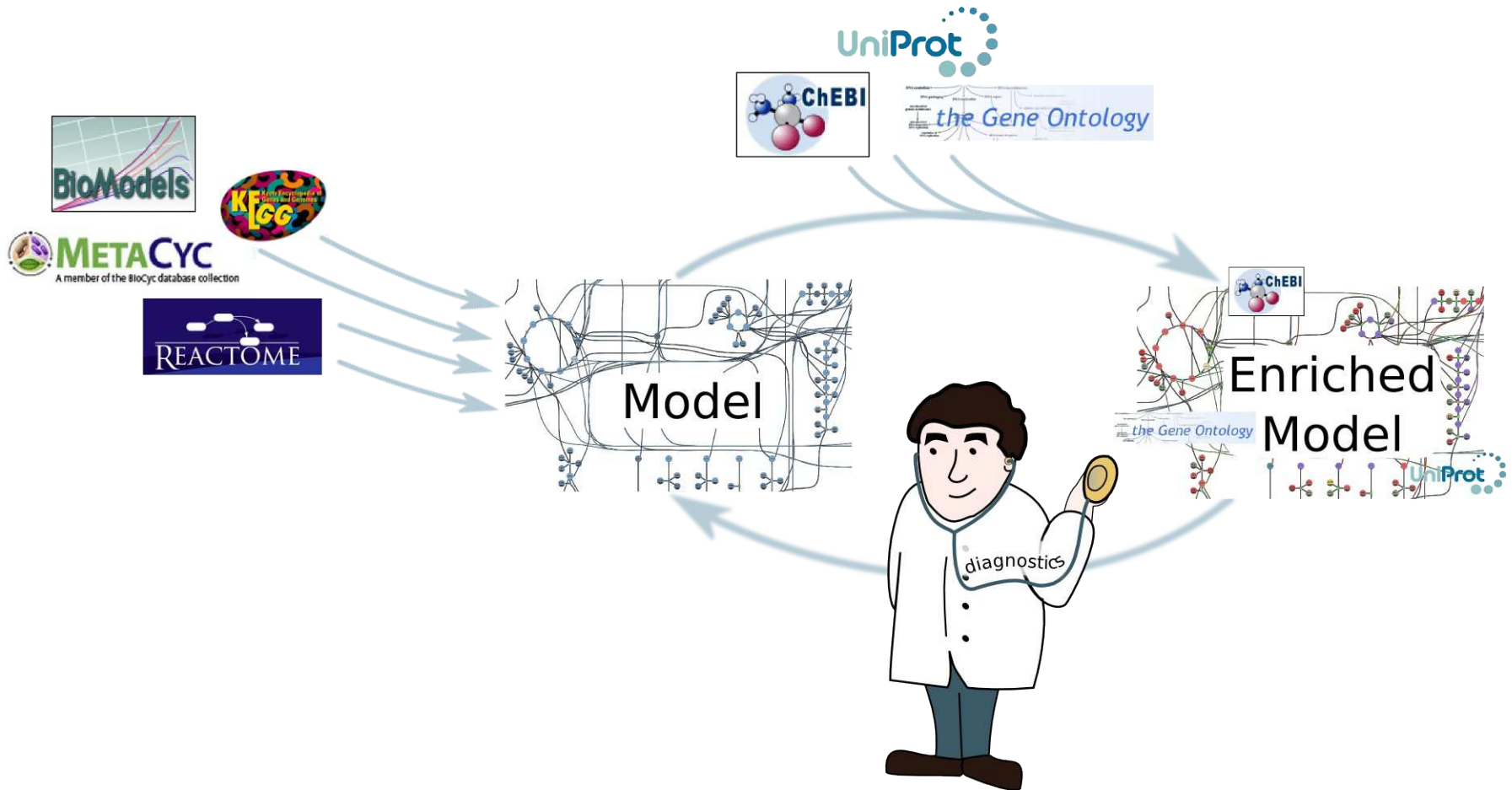
Where are missing reactions (EC 4.2.1.17) ?



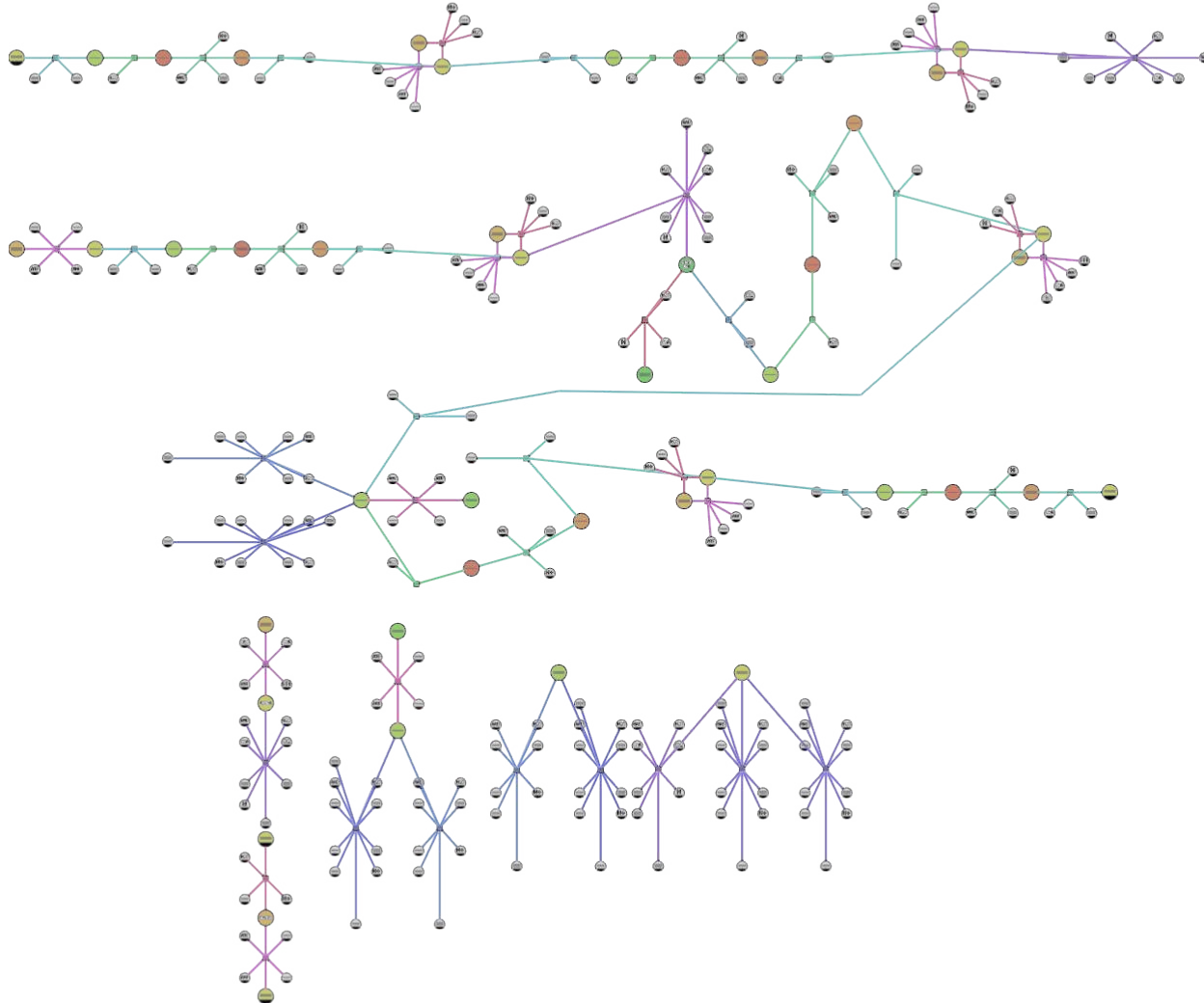
Not that easy ?



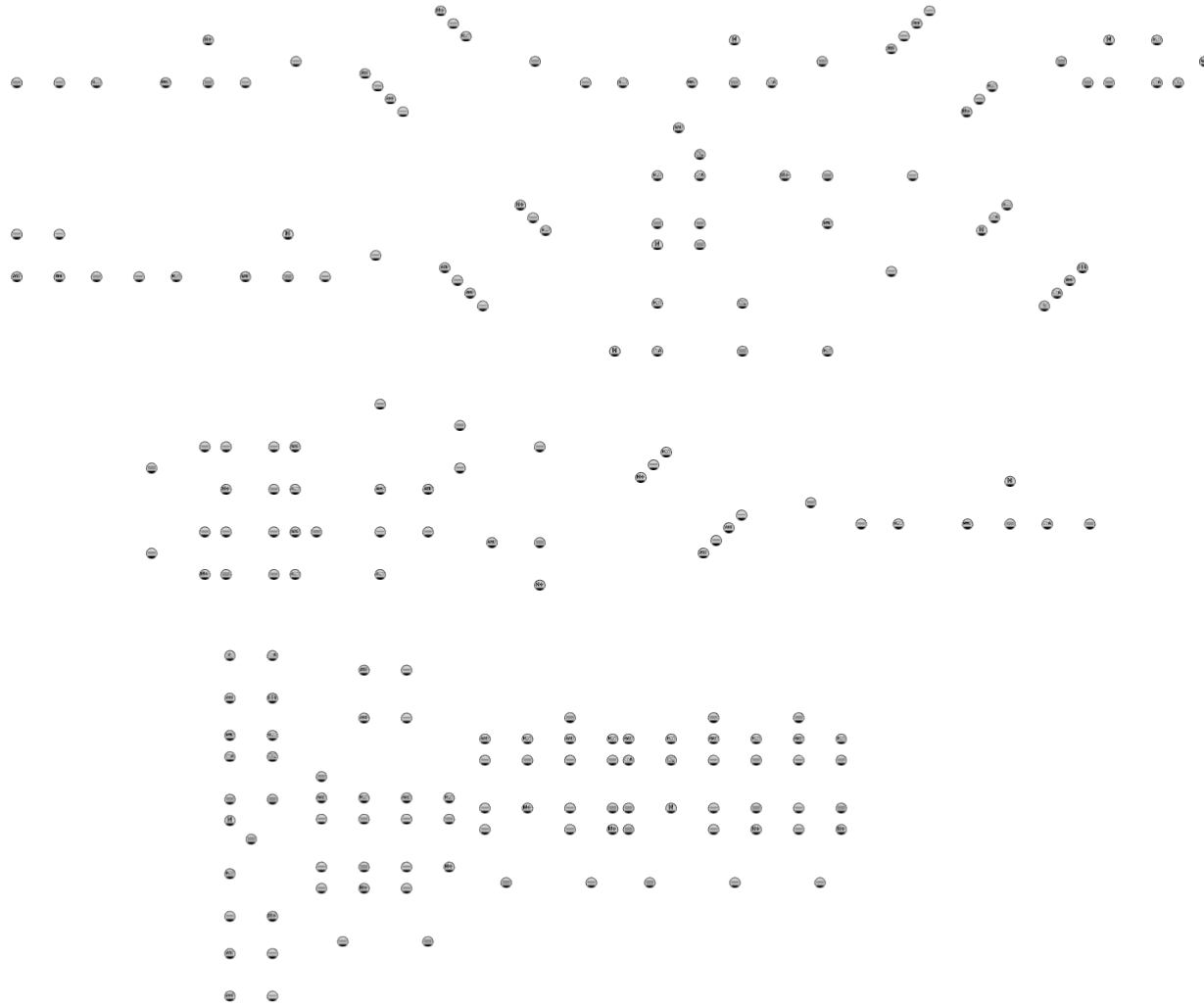
Model inference and refinement



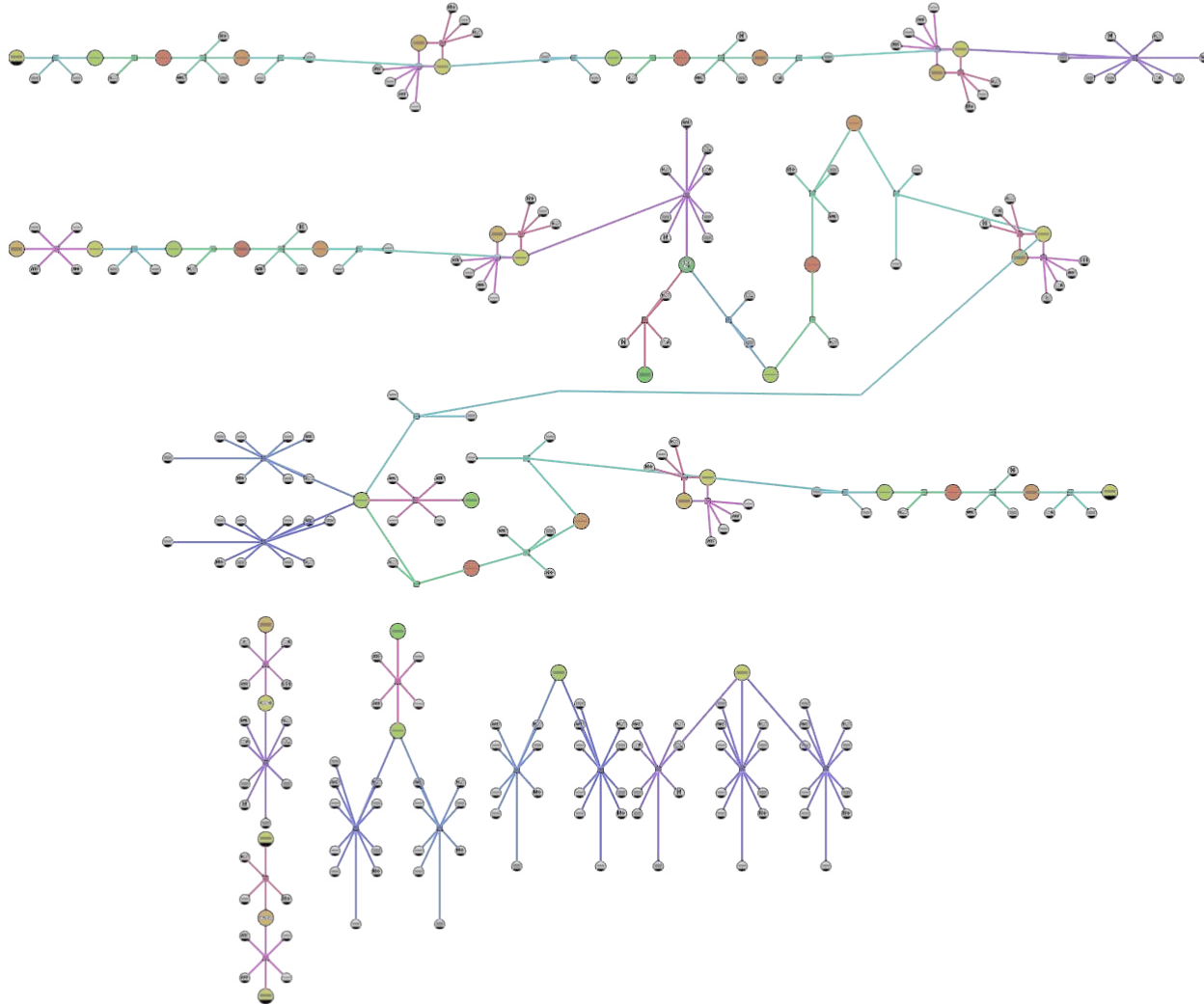
Let's generalize !



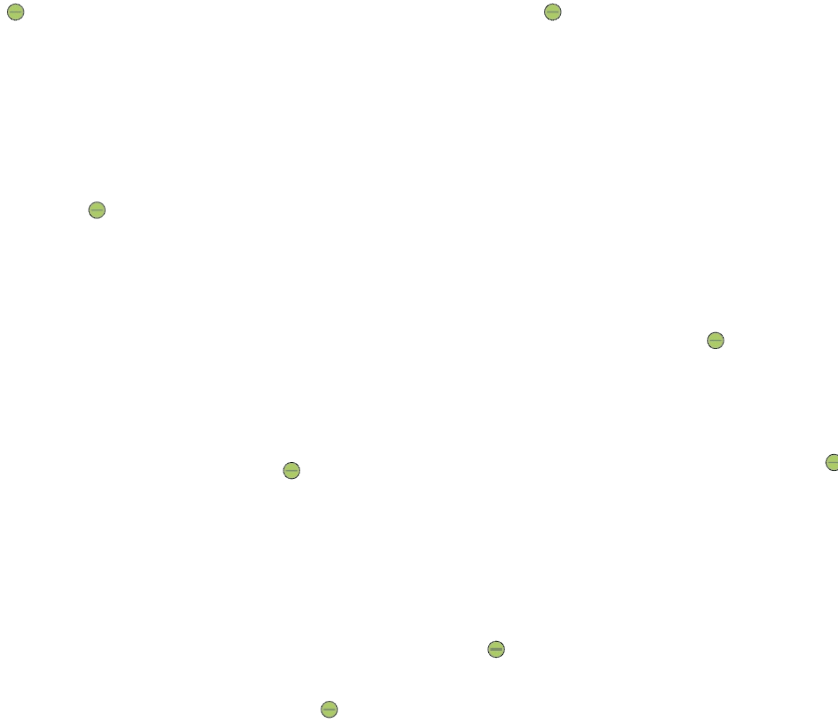
Let's generalize : ubiquitous species !



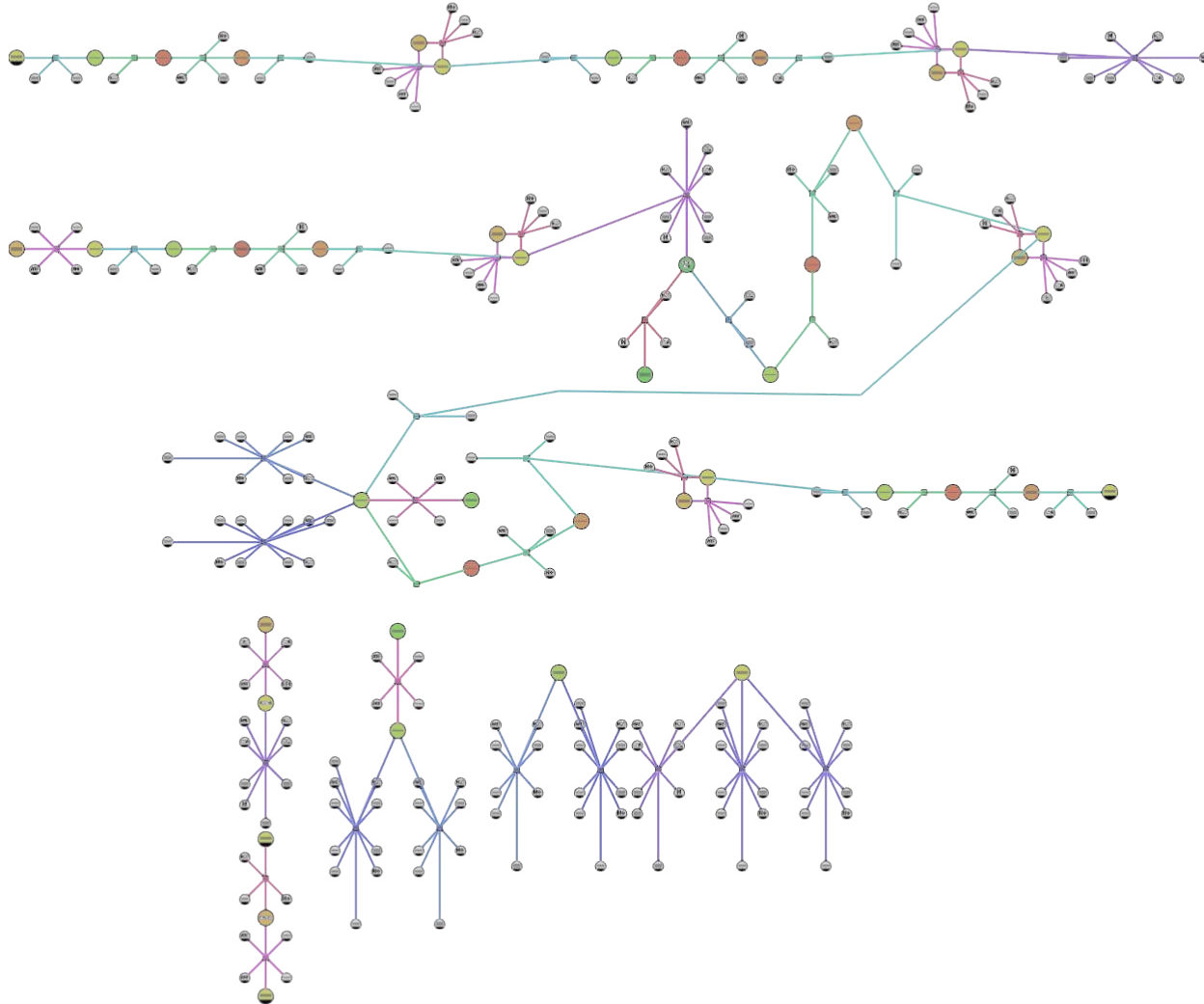
Let's generalize !



Let's generalize : fatty acyl-CoA !



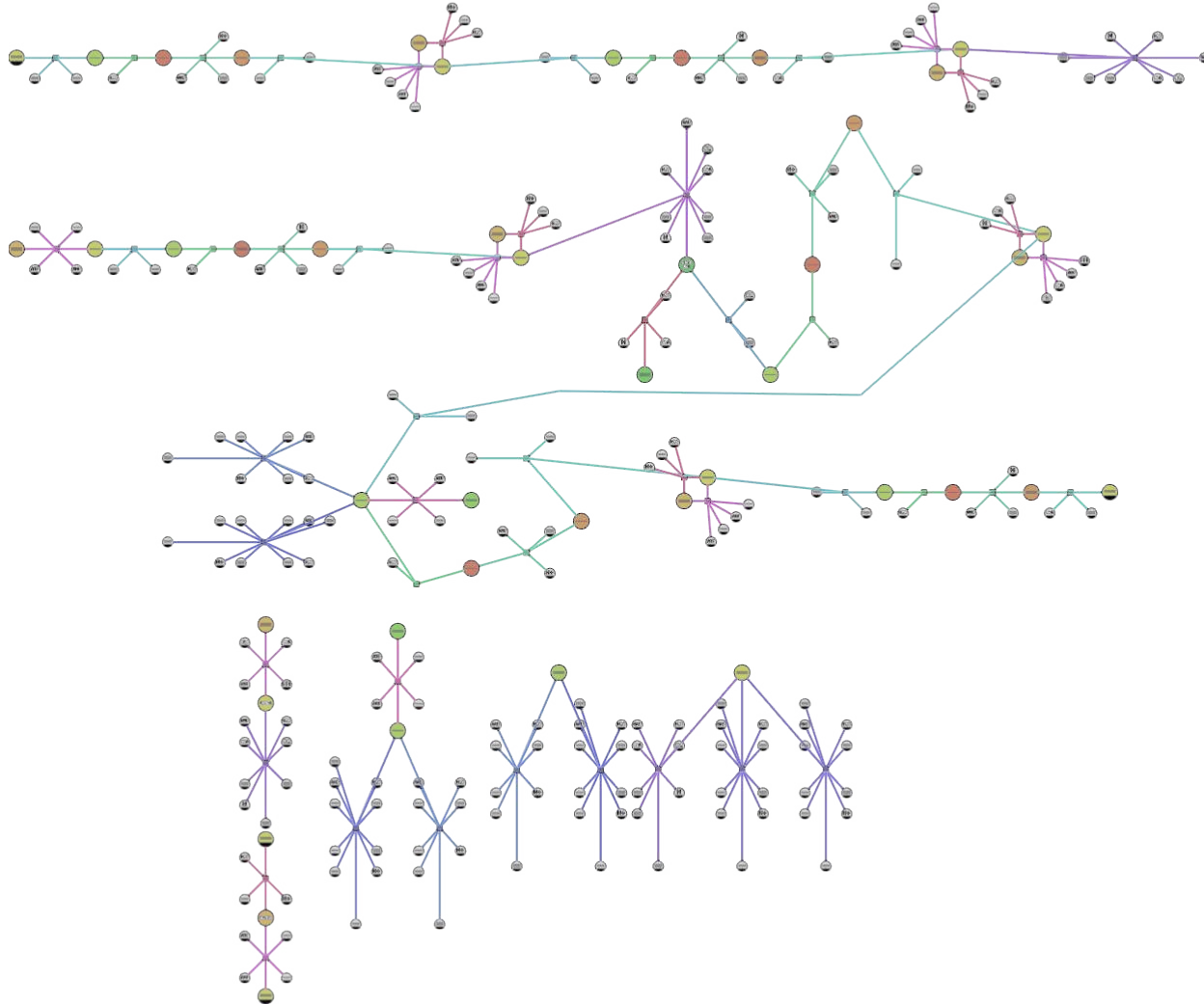
Let's generalize !



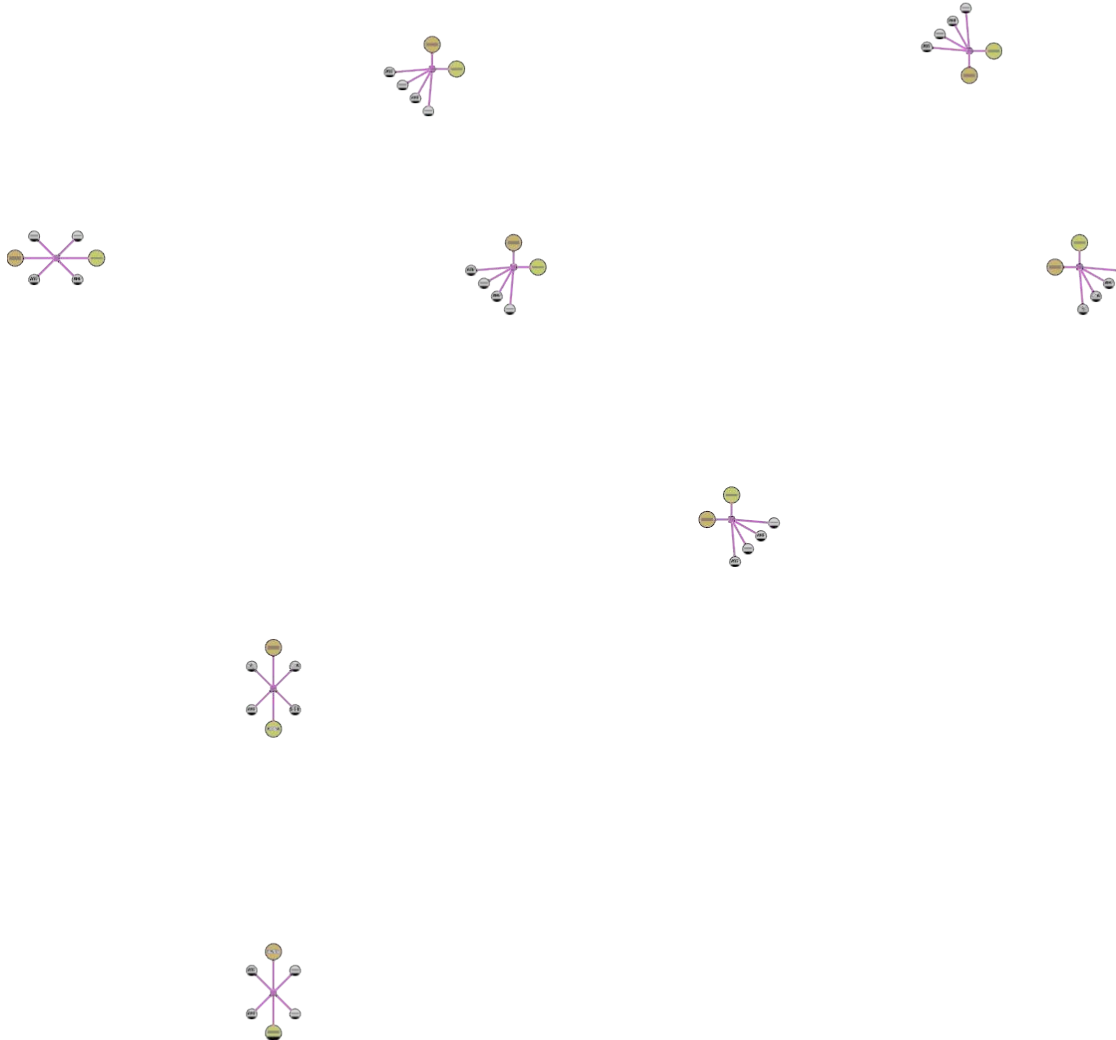
Let's generalize : oxo-acyl-CoA !



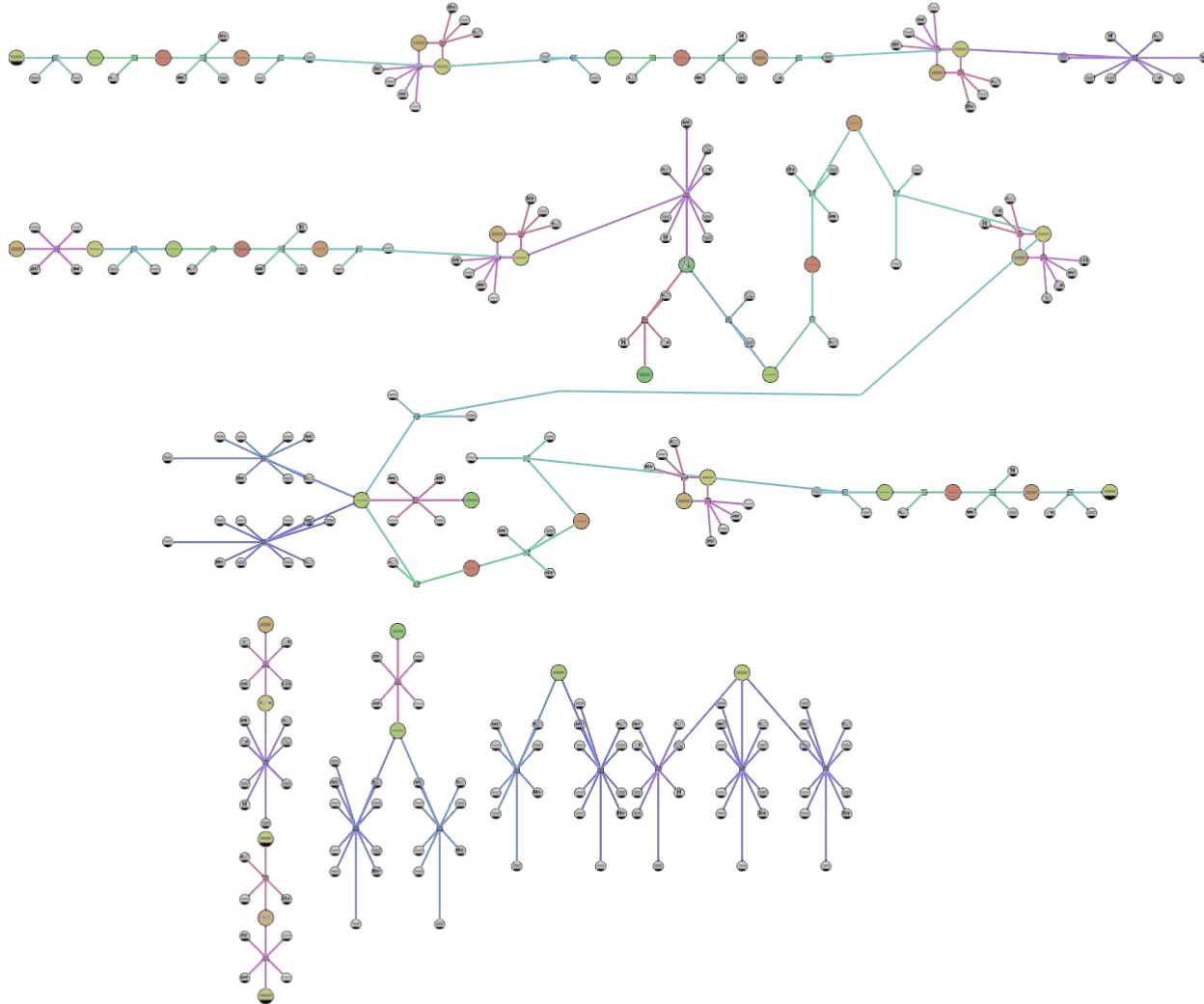
Let's generalize !



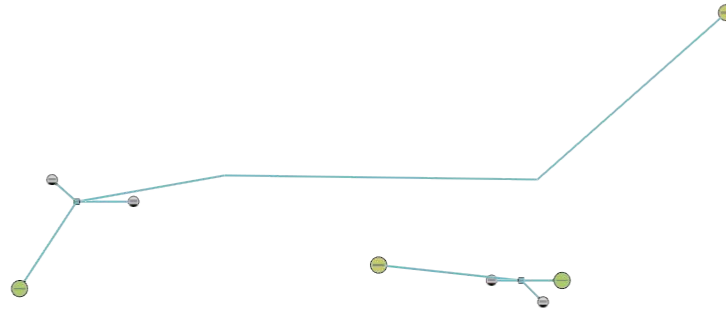
Let's generalize : fatty-acid--CoA ligase !



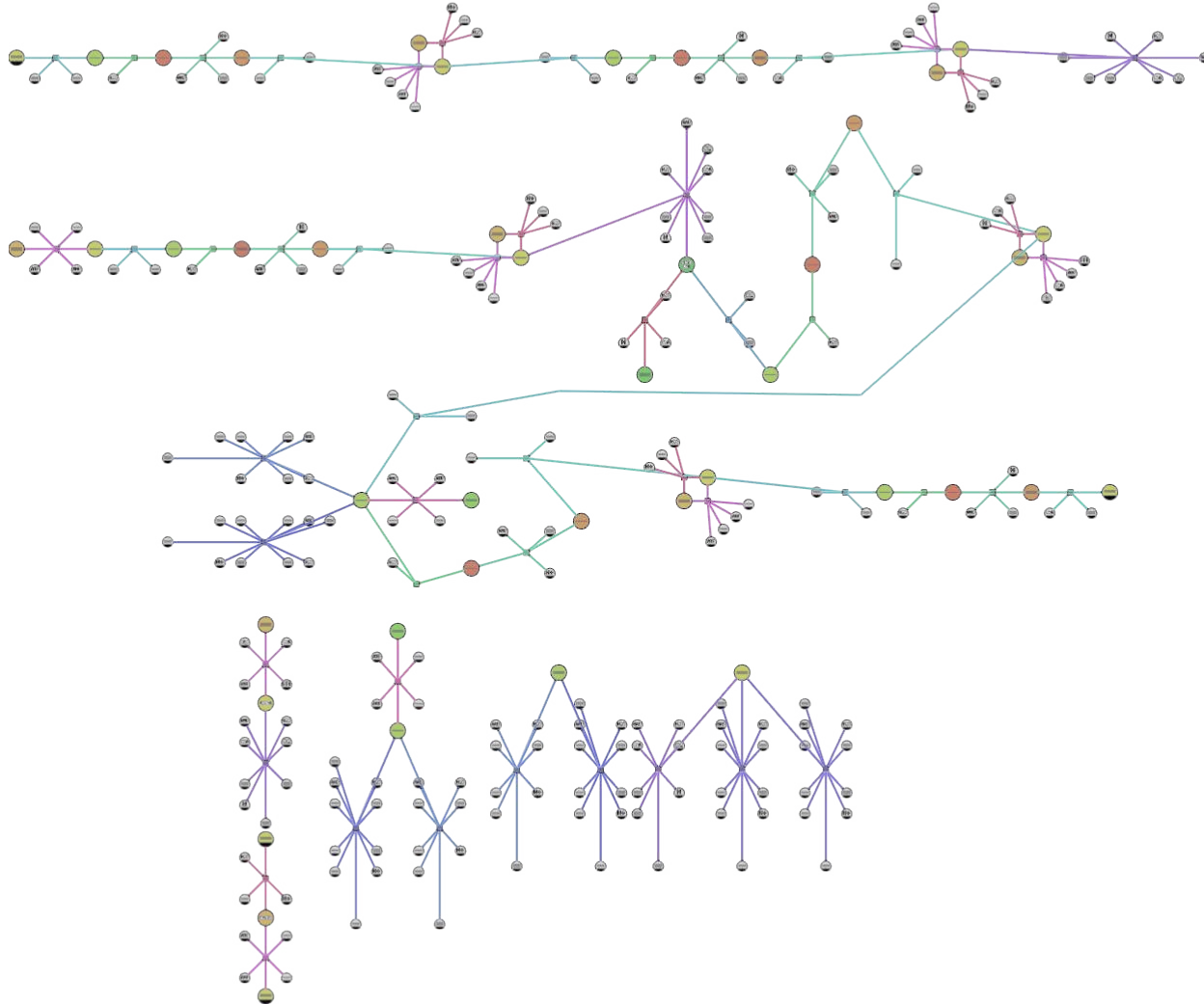
Let's generalize !



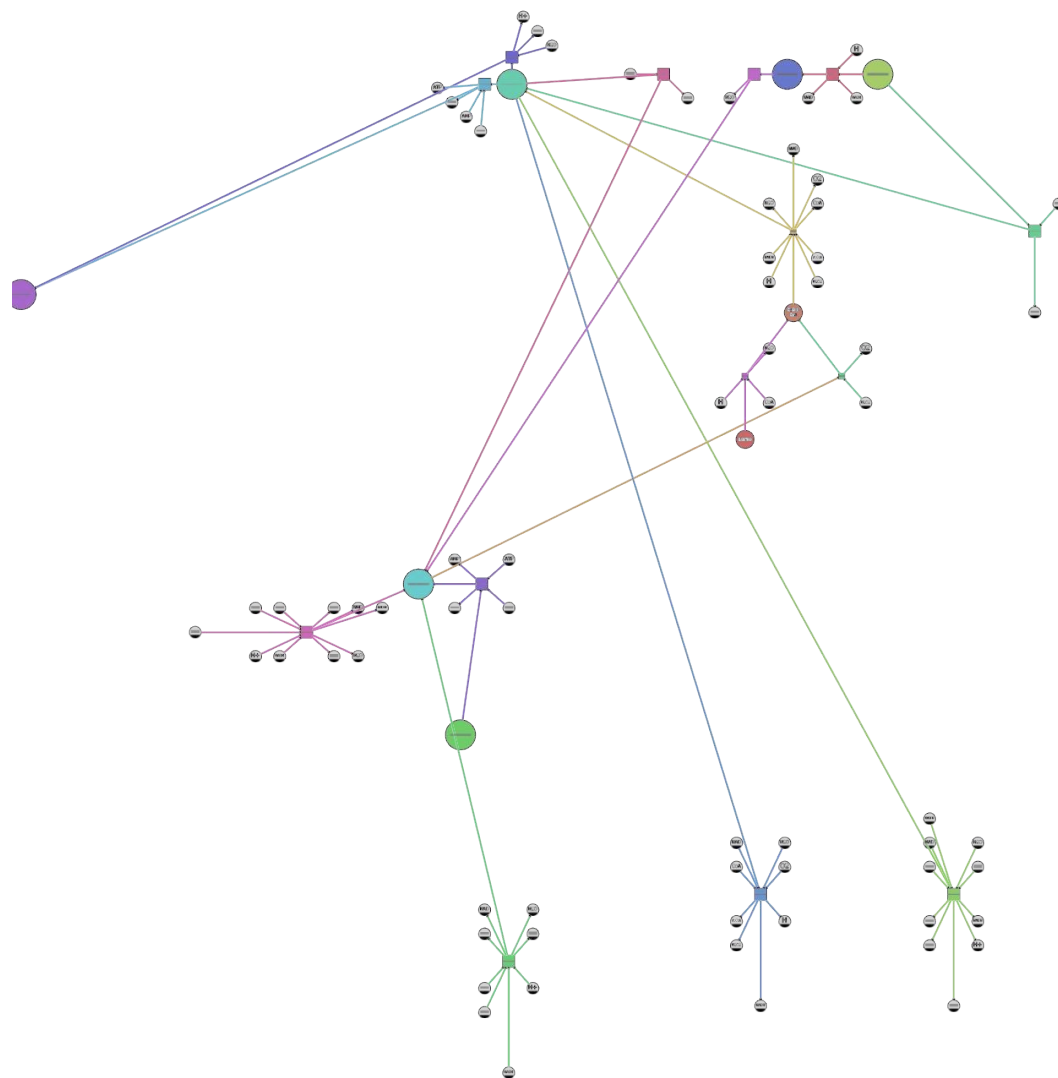
Let's generalize : acyl-CoA oxidase !



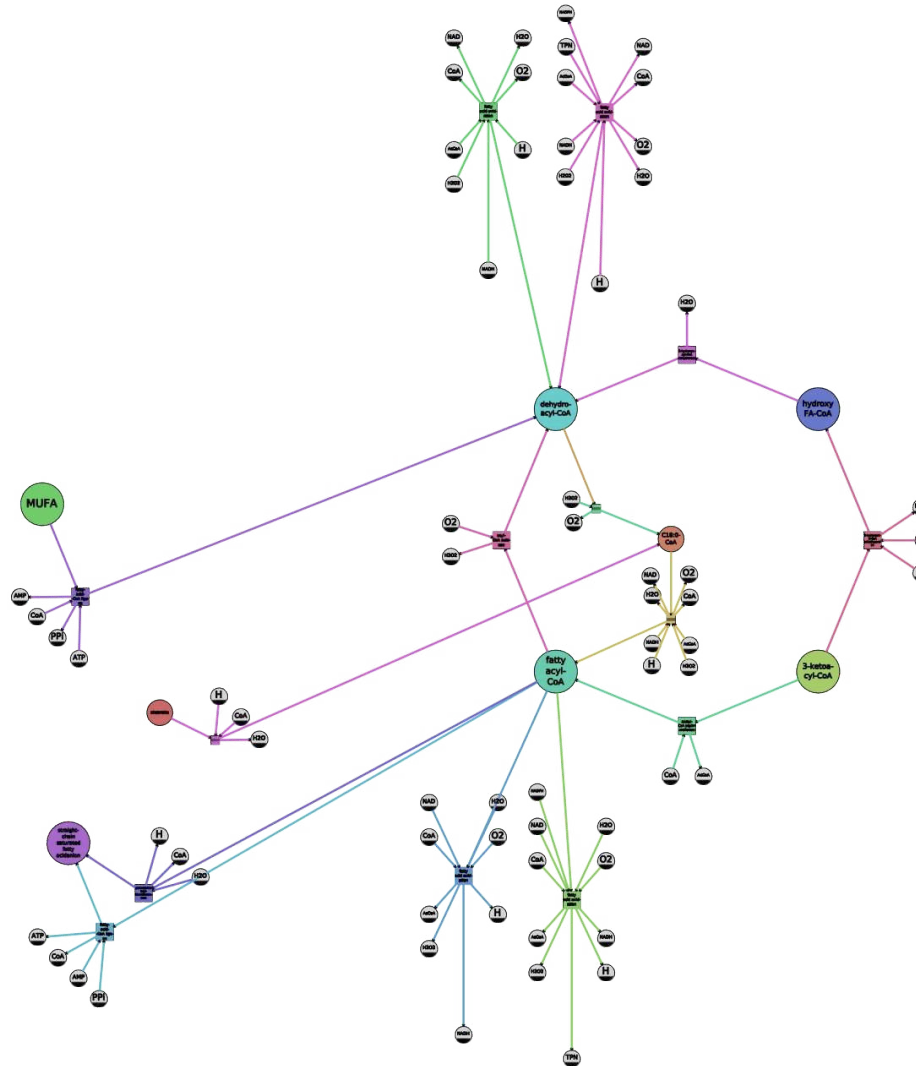
Let's generalize !



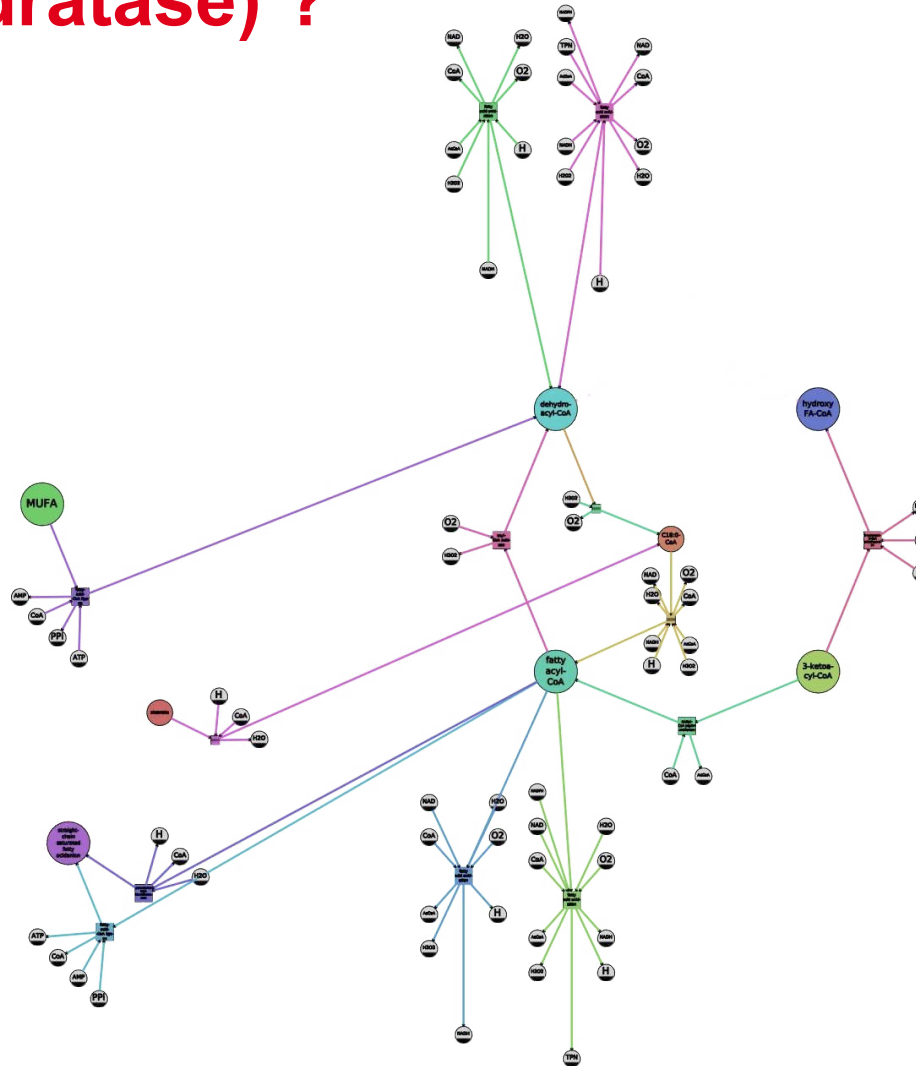
Let's factor !



Let's improve the layout a bit...



So, where's Wally (aka 3-hydroxyacyl-CoA dehydratase) ?



Acknowledgements

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